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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,271 04/19/2004		04/19/2004	Taku Takahama	040302-0393	9395
22428	7590	03/21/2006	EX		INER
FOLEY AN	ND LARI	ONER LLP	RATCLIFFE, LUKE D		
SUITE 500					
3000 K STR	EET NW	•	ART UNIT	PAPER NUMBER	
WASHING	ron, dc	20007	3662		

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/826,271	TAKAHAMA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Luke D. Ratcliffe	3662				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period fo	• •						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is the provided by the mailing date of this communication. It is the priod of the priod o	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 19 A	<u>oril 2004</u> .					
•		action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
•	Claim(s) 1-15 is/are pending in the application						
	4) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1,2,4-9,14 and 15</u> is/are rejected.						
-	∑ Claim(s) <u>3 and 10-13</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers						
	The specification is objected to by the Examine	NF.					
,	The drawing(s) filed on 19 April 2004 is/are: a)		by the Examiner.				
. • , 🖂	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ⊠ All b) □ Some * c) □ None of:							
,	1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	ut(e)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
· —	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	6) Other:	atent Application (PTO-152)				

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Vs. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1, 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakamura (20020032515).

Referring to **claims 1, 14, and 15**, Nakamura shows a vehicle external recognition system with a relative position detection section (paragraph 6), a relative velocity calculating section (paragraph 5), a vehicle velocity detecting section (paragraph 54), and a motion attribute discriminating section (paragraph 10-28).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (20020032515) in view of Cameron (6750805).

Referring to **claim 2**, Nakamura shows a vehicle external recognition system with a relative position detection section (paragraph 6), a relative velocity calculating section (paragraph 5), a vehicle velocity detecting section (paragraph 54), and a motion attribute discriminating section (paragraph 10-28). However Nakamura is silent on the number of calculations of relative velocity that are completed with the number of different initial values that are present.

Cameron shows a plurality of calculations that are completed with the number of different initial values that are present. It would have been obvious to modify Nakamura

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to have multiple calculations of relative velocity as taught by Cameron because this allows the accuracy of the final value to be increased (Cameron column 2 lines 25-45).

Referring to **claim 4**, it would be obvious to calculated relative velocity candidates by using identical dynamic characteristics because this allows for the candidates to be comparable, without using identical dynamic characteristics they would not be able to be compared.

Referring to **claim 5**, Nakamura shows a plurality of initial values that include either one of a value corresponding to a case wherein the detected object is suppose to be preceding vehicle running at the same velocity as the vehicle and a value corresponding to a cease wherein the detected object is suppose to be a stationary object (paragraph 15-20).

Referring to **claim 6**, Nakamura shows a discriminating section that discriminates the motion attribute based on a relative velocity candidate calculated based on the value corresponding to the case wherein the detected object is suppose to be the stationary object (paragraph 15-20).

Referring to **claim 7**, Nakamura shows a relative velocity determined by the relative velocity determining section is used as a state variable of a running control section that control a state of the vehicle (paragraph 9 and 18).

Referring to **claim 8**, Nakamura shows a relative velocity determing section that determines the relative velocity candidate as the relative velocity so as to realize a control characteristic required to the running control section based upon the motition attribute discriminated by the motion attribute discriminating section (paragraph 10-28).

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Referring to **claim 9**, Nakamura shows a running control section that control a braking force of the vehicle based on the relative velocity determined by the relative velocity determining section (paragraph 60).

Claims **3**, **and 10-13** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luke D. Ratcliffe whose telephone number is 571-272-3110. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LDR

THOMAS H. TARCZA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600